

NEPCOAT - Qualified Products - List A

for Protective Coatings for
NEW and 100% BARE EXISTING Steel for Bridges

Nepcoat Product			Slip Coef	Recom'd Coating DFT (min/max)		VOC (Delivered)		QPL Approval
No.	Coats	PRODUCTS - TESTED AND ACCEPTED	Class	mil	micron	lb/gal	g/L	Dates
NEPCOAT LIST A - INORGANIC zinc rich primer / epoxy or urethane intermediate / aliphatic urethane finish								
A7-97	(T30)	CARBOLINE COMPANY						from
	Primer	Carbozinc 11 HS	B	2-3	50-75	2.4	288	3/3/99
	Inter	Carboguard 893 Epoxy Intermediate		4-6	100-150	1.6	195	until
	Finish	Carbothane 133 HB Aliphatic Polyurethane		3-5	75-125	3.2	384	3/3/04**
A9-97	(T47)	AMERON PROTECTIVE COATINGS						from
	Primer	Dimetcote D9 HS Inorganic Zinc Primer	B	3-4	75-100	2.7	320	3/28/01
	Inter	Amercoat 385 Multi-Purpose Epoxy		4-6	100-150	2.3	280	until
	Finish	Amercoat 450 HS Aliphatic Polyurethane		2-3	50-75	2.4	282	3/28/05
NOTES:								
1	NEPCOAT is the NORTHEAST PROTECTIVE COATING COMMITTEE of CT, ME, MA, NH, NJ, NY, PA, RI, VT							
2	Products are accepted for use on NEW and 100% BARE EXISTING steel (cleaned by abrasive blasting) for bridges.							
3	(Ax-94) Products comply with NEPCOAT 94 Testing Standard (6/15/94) & Acceptance Criteria (6/5/96). (Ax-97) Products comply with NEPCOAT 97 Testing Standard (6/1/97) & Acceptance Criteria (3/30/00). The -97 VOC values are provided by the testing lab. NEPCOAT max limit (3.5 lb/gal). DFT values are from manufacturer.							
4	Any change in formulation from that tested will result in removal of the product from the QPL.							
5	The full QPL term is four years from the date of acceptance.							
*	Acceptance is CONDITIONAL pending submission within three years of successful 2-year field history.							
**	The term is extended for one year if the identical product is being retested at the end of the term. HB= High Build MC= Moisture Cured MIO= Micaceous Iron Oxide PU= Polyurethane ZR= Zinc Rich							

NEPCOAT - Qualified Products - List B									
for Protective Coatings for NEW and 100% BARE EXISTING Steel for Bridges									
Nepcoat Product			Slip Coef	Recom'd Coating DFT (min/max)		VOC (Delivered)		QPL Approval	
No.	Coats	PRODUCTS - TESTED AND ACCEPTED	Class	mil	micron	lb/gal	g/L	Dates	
NEPCOAT LIST B - ORGANIC zinc rich primer / epoxy or urethane intermediate / aliphatic urethane finish									
B7-97	(T31)	CARBOLINE COMPANY							from
	Primer	Carbozinc 859 Zinc Rich Epoxy Primer	B	3-5	75-125	2.7	325		2/18/99
	Inter	Carboguard 888 Epoxy Intermediate		3-5	75-125	2.8	330		until
	Finish	Carbothane 133 HB Aliphatic Polyurethane		3-5	75-125	3.2	384		2/18/04**
B8-97*	(T42)	XYMAX COATINGS							from
	Primer	MonoZinc ME III Moisture Cured Primer	B	3-4	75-100	3.0	360		3/28/01
	Inter	MonoFerro PUR Moisture Cured		3-4	75-100	2.2	270		until
	Finish	Bridge Finish MIO Moisture Cured Topcoat		2-3	50-75	3.0	362		3/28/04
B9-97*	(T45)	SHERWIN WILLIAMS							from
	Primer	Zinc Clad III HS	B	3-5	75-125	2.8	330		3/28/01
	Inter	Macropoxy 646		5-10	125-250	1.9	230		until
	Finish	Acrolon 218 Acrylic		3-6	75-150	3.3	400		3/28/04
B10-97*	(T49)	M.A.B. INDUSTRIAL COATINGS							from
	Primer	Ply-Tile Epoxy Organic Zinc Primer	A	2.5-3.5	63-88	3.5	420		3/28/01
	Inter	Ply-Mastic Epoxy		5-7	125-175	1.3	150		until
	Finish	Ply-Thane 890 HS		2-6	50-150	2.6	310		3/28/04
B11-97*		AMERON PROTECTIVE COATINGS							from
	Primer	Amercoat 430 Moisture Cured ZR Polyurethane Primer	B	3-4	75-100	3.0	360		3/28/01
	Inter	Amercoat 433 MC Polyurethane Intermediate w/ MIO		3-4	75-100	2.2	270		until
	Finish	Amercoat 434 MC Aliphatic PU Topcoat w/ MIO		2-3	50-75	3.0	362		3/28/04
NOTES:									
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5	Any change in formulation from that tested will result in removal of the product from the QPL.								
6	The full QPL term is four years from the date of acceptance.								
*	Acceptance is CONDITIONAL pending submission within three years of successful 2-year field history.								
**	The term is extended for one year if the identical product is being retested at the end of the term. HB= High Build MC= Moisture Cured MIO= Micaceous Iron Oxide PU= Polyurethane ZR= Zinc Rich								

NEPCOAT - Acceptance Criteria - List A, B

for Protective Coatings for NEW and 100% BARE EXISTING Steel for Bridges

'94 Testing Standard (6/15/94) & Acceptance Criteria (6/5/96)

'97 Testing Standard (6/1/97) & Acceptance Criteria modified 7/22/97, 3/3/99, 9/22/99, 3/30/00

TEST NO. 1 SLIP COEFFICIENT Acceptance criteria (min.)

OZ Report results only

IOZ Slip coefficient 0.5 (Class B) required

TEST NO. 2 B117 SALT FOG RESISTANCE

Rust / Blistering Acceptance criteria (max.):

		----- RUST CRITERIA -----				BLISTER CRITERIA	
	Coat	@ Hours	max creep	ave creep	% Length	@ Hours	Conversion #
OZ	Primer	5000	4 mm	2 mm	3%	4000	6
	Inter	5000	4 mm	2 mm	3%	4000	7
	Finish	5000	4 mm	2 mm	3%	4000	7
IOZ	Primer	5000	1.5 mm	1 mm	2%	5000	10
	Inter	5000	4 mm	2 mm	3%	4000	8
	Finish	5000	4 mm	2 mm	3%	4000	8

TEST NO. 3 D5894 CYCLIC WEATHERING RESISTANCE

Rust / Blistering Acceptance criteria (max.):

		----- RUST CRITERIA -----				BLISTER CRITERIA	
	Coat	@ Hours	max creep	ave creep	% Length	@ Hours	Conversion #
OZ	Primer	5000	4 mm	2 mm	report only	4000	7
	Inter	5000	4 mm	2 mm	report only	4000	8
	Finish	5000	4 mm	2 mm	report only	4000	8
IOZ	Primer	5000	1.5 mm	1 mm	report only	5000	10
	Inter	5000	4 mm	2 mm	report only	4000	9
	Finish	5000	4 mm	2 mm	report only	4000	9

Gloss Retention Acceptance criteria: Report results only

Color Difference Acceptance criteria: Report results only

TEST NO. 4 D2247 RELATIVE HUMIDITY RESISTANCE

Rust / Blistering Acceptance criteria at 4, 000 hours (max.):

Rust creepage at scribe	0.8 mm
Total rusting at scribe	2%
Blistering	none (conv. # 10)

TEST NO. 5 D4060 ABRASION RESISTANCE

Wear Index Acceptance criteria: Report results only

TEST NO. 6 D4541 ADHESION

Pull-Off Strength Acceptance criteria (min.):

OZ 4.1 MPa (600 psi)

IOZ 1.7 MPa (250 psi)

TEST NO. 7 FREEZE THAW STABILITY

Pull-Off Strength Acceptance criteria (min.):

OZ 4.1 MPa (600 psi)

IOZ 1.7 MPa (250 psi)